STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/577,613_

Source: _JFWP,_

Date Processed by STIC: _05/11/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** **SERIAL NUMBER:** _____

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
Wrapped Aminos   was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will
prevent "wrapping."

2____Invalid Line Length   The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers;
Numbering   use **space characters**, instead.

4____Non-ASCII   The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please
ensure your subsequent submission is saved in ASCII text.**

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules,
each n or Xaa can only represent a single residue.** Please present the **maximum** number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
"bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.**

7____Skipped Sequences   Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences   Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
(NEW RULES)   <210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's   Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
Response   scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or
is Artificial Sequence. (see item 11 below)

11____Use of <220>   ~~Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses~~. Use
of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as
explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of
Sequence Rules

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____ Misuse of n/Xaa   "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>
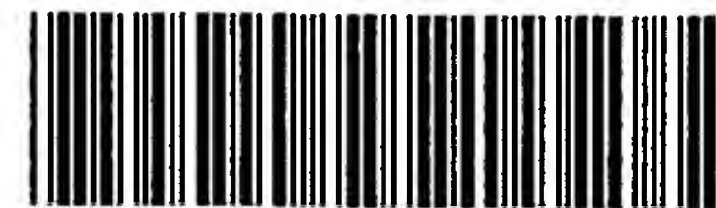
IFWP

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: US/10/577,613   TIME: 11:18:49

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

```
   3 <110> APPLICANT: Alexander, Cherkasky
   5 <120> TITLE OF INVENTION: PCT/IB 2004/003536: CHERKASKY FUSION PROTEINS CONTAINING
ANTIBODY-,
   6      ANTIGEN - AND MICROTUBULE - BINDING REGIONS AND IMMUNE RESPONSE - TRIGGERIND
   7      REGIONS
   9 <130> FILE REFERENCE: -
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/577,613
C--> 11 <141> CURRENT FILING DATE: 2006-04-28
   11 <160> NUMBER OF SEQ ID NOS: 14
   13 <170> SOFTWARE: PatentIn version 3.3
   15 <210> SEQ ID NO: 1
   16 <211> LENGTH: 676
   17 <212> TYPE: PRT
C--> 18 <213> ORGANISM: Artifical sequence
W--> 20 <220> FEATURE:
W--> 20 <223> OTHER INFORMATION:
W--> 20 <400> 1
   22 Ala Ala Gln His Asp Glu Ala Gln Gln Asn Ala Phe Tyr Gln Val Leu
   23 1               5                   10                  15
   26 Asn Met Pro Asn Leu Asn Ala Asp Gln Arg Asn Gly Phe Ile Gln Ser
   27             20                  25                  30
   30 Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Val Leu Gly Glu Ala Lys
   31         35                  40                  45
   34 Lys Leu Asn Glu Ser Gln Ala Pro Lys Ala Asp Asn Asn Phe Asn Lys
   35     50                  55                  60
   38 Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu Asn Met Pro Asn Leu Asn
   39 65                  70                  75                  80
   42 Glu Glu Gln Arg Asn Gly Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser
   43             85                  90                  95
   46 Gln Ser Ala Asn Leu Leu Ser Glu Ala Lys Lys Leu Asn Glu Ser Gln
   47             100                 105                 110
   50 Ala Pro Lys Ala Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe
   51         115                 120                 125
   54 Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Gly
   55     130                 135                 140
   58 Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu
   59 145                 150                 155                 160
   62 Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Asp Asn
   63         165                 170                 175
   66 Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
   67         180                 185                 190
   70 Pro Asn Leu Thr Glu Glu Gln Arg Asn Gly Phe Ile Gln Ser Leu Lys
   71         195                 200                 205
   74 Asp Asp Pro Ser Val Ser Lys Glu Ile Leu Ala Glu Ala Lys Lys Leu
```

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: US/10/577,613   TIME: 11:18:49

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

```
75       210                  215                  220
78 Asn Asp Ala Gln Ala Pro Lys Glu Glu Asp Asn Asn Lys Pro Gly Lys
79 225                  230                  235                  240
82 Glu Asp Gly Asn Lys Pro Gly Lys Glu Asp Gly Asn Gly Gly Gly Gly
83                  245                  250                  255
86 Gly Met Ser Pro Phe Pro Leu Thr Ser Met Asp Lys Ala Phe Ile Thr
87                  260                  265                  270
90 Val Leu Glu Met Thr Pro Val Leu Gly Thr Glu Ile Ile Asn Tyr Arg
91             275                  280                  285
94 Asp Gly Met Gly Arg Val Leu Ala Gln Asp Val Tyr Ala Lys Asp Asn
95      290                  295                  300
98 Leu Pro Pro Phe Pro Ala Ser Val Lys Asp Gly Tyr Ala Val Arg Ala
99 305                  310                  315                  320
102 Ala Asp Gly Pro Gly Asp Arg Phe Ile Ile Gly Glu Ser Gln Ala Gly
103                  325                  330                  335
106 Glu Gln Pro Thr Gln Thr Val Met Pro Gly Gln Val Met Arg Val Thr
107                  340                  345                  350
110 Thr Gly Ala Pro Ile Pro Cys Gly Ala Asp Ala Val Val Gln Val Glu
111             355                  360                  365
114 Asp Thr Glu Leu Ile Arg Glu Ser Asp Asp Gly Thr Glu Glu Leu Glu
115      370                  375                  380
118 Val Arg Ile Leu Val Gln Ala Arg Pro Gly Gln Asp Ile Arg Pro Ile
119 385                  390                  395                  400
122 Gly His Asp Ile Lys Arg Gly Glu Cys Val Leu Ala Lys Gly Thr His
123                  405                  410                  415
126 Met Gly Pro Ser Glu Ile Gly Leu Leu Ala Thr Val Gly Val Thr Glu
127                  420                  425                  430
130 Val Glu Val Asn Lys Phe Pro Val Val Ala Val Met Ser Thr Gly Asn
131             435                  440                  445
134 Glu Leu Leu Asn Pro Glu Asp Asp Leu Leu Pro Gly Lys Ile Arg Asp
135      450                  455                  460
138 Ser Asn Arg Ser Thr Leu Leu Ala Thr Ile Gln Glu His Gly Tyr Pro
139 465                  470                  475                  480
142 Thr Ile Asn Leu Gly Ile Val Gly Asp Asn Pro Asp Asp Leu Leu Asn
143             485                  490                  495
146 Ala Leu Asn Glu Gly Ile Ser Arg Ala Asp Val Ile Ile Thr Ser Gly
147             500                  505                  510
150 Gly Val Ser Met Gly Glu Lys Asp Tyr Leu Lys Gln Val Leu Asp Ile
151             515                  520                  525
154 Asp Leu His Ala Gln Ile His Phe Gly Arg Val Phe Met Lys Pro Gly
155      530                  535                  540
158 Leu Pro Thr Thr Phe Ala Thr Leu Asp Ile Asp Gly Val Arg Lys Ile
159 545                  550                  555                  560
162 Ile Phe Ala Leu Pro Gly Asn Pro Val Ser Ala Val Val Thr Cys Asn
163                  565                  570                  575
166 Leu Phe Val Val Pro Ala Leu Arg Lys Met Gln Gly Ile Leu Asp Pro
167             580                  585                  590
170 Arg Pro Thr Ile Ile Lys Ala Arg Leu Ser Cys Asp Val Lys Leu Asp
171      595                  600                  605
```

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,613**   TIME: 11:18:49

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

```
174 Pro Arg Pro Glu Tyr His Arg Cys Ile Leu Thr Trp His His Gln Glu
175     610                 615             620
178 Pro Leu Pro Trp Ala Gln Ser Thr Gly Asn Gln Met Ser Ser Arg Leu
179 625             630                 635                 640
182 Met Ser Met Arg Ser Ala Asn Gly Leu Leu Met Leu Pro Pro Lys Thr
183             645                 650                 655
186 Glu Gln Tyr Val Glu Leu His Lys Gly Glu Val Val Asp Val Met Val
187         660             665                 670
190 Ile Gly Arg Leu
191         675
194 <210> SEQ ID NO: 2
195 <211> LENGTH: 2092
196 <212> TYPE: DNA
```
C--> `197 <213> ORGANISM: Artifical sequence`   ⟶ *Same Error*
W--> `199 <220> FEATURE:`
W--> `199 <223> OTHER INFORMATION:`
W--> `199 <400> 2`
```
200 tgctgcgcaa cacgatgaag ctcaacaaaa cgcttttat caagtcttaa atatgcctaa   60
202 cttaaatgct gatcaacgca atggtttat ccaaagcctt aaagatgatc caagccaaag  120
204 tgctaacgtt ttaggtgaag ctaaaaaatt aaacgaatct caagcaccga aagctgacaa  180
206 caatttcaac aaagaacaac aaaatgcttt ctatgaaatc ttgaacatgc ctaacttgaa  240
208 cgaagaacaa cgcaatggtt tcatccaaag cttaaaagat gacccaagtc aaagtgctaa  300
210 cctattgtca gaagctaaaa agttaaatga atctcaagca ccgaaagcgg ataacaaatt  360
212 caacaaagaa caacaaaatg ctttctatga aatcttacat ttacctaact taaacgaaga  420
214 acaacgcaat ggtttcatcc aaagcctaaa agatgaccca agccaaagcg ctaacctttt  480
216 agcagaagct aaaaagctaa atgatgcaca agcaccaaaa gctgacaaca aattcaacaa  540
218 agaacaacaa aatgctttct atgaaatttt acatttacct aacttaactg aagagcaacg  600
220 taacggcttc atccaaagcc ttaaagacga tccttcagtg agcaaagaaa ttttagcaga  660
222 agctaaaaag ctaaacgatg ctcaagcacc aaaagaggaa gacaacaaca aacctggtaa  720
224 agaagacggc aacaaacctg gcaaagaaga cggtaacggc ggcggcggcg gcgtttaggt  780
226 cacagtgctg tcgatatcac caaggtggct agaagacatc gcatgtctcc ttttcctctg  840
228 acatctatgg acaaagcctt tatcacagtc ctggagatga ctccggtgct tgggacagaa  900
230 atcatcaatt accgagatgg aatggggcga gtccttgctc aagatgtata tgcaaaagac  960
232 aatttaccccc ccttcccagc atcagtaaaa gatggctatg ctgtccgagc tgctgatggc 1020
234 ccaggagatc gtttcatcat tggggaatcc caagctggtg aacagccaac tcagacagta 1080
236 atgccaggac aagtcatgcg ggttacaaca ggtgctccaa taccctgcgg tgctgatgca 1140
238 gtagtacaag tggaagatac cgaacttatc agggaatcag atgatggcac tgaagaactt 1200
240 gaagtgcgaa ttctggtgca agctcggcca ggccaagata tcagacccat cggccatgac 1260
242 attaaaagag gggaatgtgt tttggccaaa ggaacccaca tgggcccctc agagattggt 1320
244 cttctggcaa ctgtaggtgt cacagaggtt gaagttaata agtttccagt ggttgcagtc 1380
246 atgtcaacag ggaatgagct gctaaatcct gaagatgacc tcttaccagg gaagattcga 1440
248 gacagcaatc gttcaactct tctagcaaca attcaggaac atggttaccc cacgatcaac 1500
250 ttgggtattg taggagacaa cccagatgac ttactcaatg ccttgaatga gggtatcagt 1560
252 cgtgctgatg tcatcatcac atcaggggggt gtatccatgg gggaaaagga ctatctcaag 1620
254 caggtgctgg acattgatct tcatgctcag atccattttg gcagggtttt tatgaaacca 1680
256 ggcttgccaa caacatttgc aactttggat attgatggtg taagaaaaat aatctttgca 1740
258 ctacctggga atcctgtatc ggctgtggtc acctgcaatc tctttgttgt gcctgcactg 1800
260 aggaaaatgc agggcatctt ggatcctcgg ccaaccatca tcaaagcaag gttatcatgt 1860
262 gatgtaaaac ttgatcctcg tccagaatac catcggtgta tactaacttg gcatcaccaa 1920
```

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,613**   TIME: 11:18:49

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

```
264 gaaccactac cttgggcaca gagtacaggt aatcaaatga gcagccgtct gatgagcatg      1980
266 cgcagtgcca atggattgtt gatgctacct ccaaagacag aacagtacgt ggagctccac      2040
268 aaaggcgagg tggtggatgt catggtcatt ggacggctat gatggtcacc ag              2092
271 <210> SEQ ID NO: 3
272 <211> LENGTH: 300
273 <212> TYPE: PRT
274 <213> ORGANISM: Artifical sequence
277 <220> FEATURE:
278 <221> NAME/KEY: misc_feature
279 <222> LOCATION: (264)..(264)
280 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <222> LOCATION: (278)..(278)
285 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature
289 <222> LOCATION: (281)..(281)
290 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
292 <400> SEQUENCE: 3
294 Ala Ala Gln His Asp Glu Ala Gln Gln Asn Ala Phe Tyr Gln Val Leu
295 1               5                   10                  15
298 Asn Met Pro Asn Leu Asn Ala Asp Gln Arg Asn Gly Phe Ile Gln Ser
299             20                  25                  30
302 Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Val Leu Gly Glu Ala Lys
303         35                  40                  45
306 Lys Leu Asn Glu Ser Gln Ala Pro Lys Ala Asp Asn Asn Phe Asn Lys
307     50                  55                  60
310 Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu Asn Met Pro Asn Leu Asn
311 65                  70                  75                  80
314 Glu Glu Gln Arg Asn Gly Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser
315                 85                  90                  95
318 Gln Ser Ala Asn Leu Leu Ser Glu Ala Lys Lys Leu Asn Glu Ser Gln
319                 100                 105                 110
322 Ala Pro Lys Ala Asp Asn Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe
323             115                 120                 125
326 Tyr Glu Ile Leu His Leu Pro Asn Leu Asn Glu Glu Gln Arg Asn Gly
327     130                 135                 140
330 Phe Ile Gln Ser Leu Lys Asp Asp Pro Ser Gln Ser Ala Asn Leu Leu
331 145                 150                 155                 160
334 Ala Glu Ala Lys Lys Leu Asn Asp Ala Gln Ala Pro Lys Ala Asp Asn
335                 165                 170                 175
338 Lys Phe Asn Lys Glu Gln Gln Asn Ala Phe Tyr Glu Ile Leu His Leu
339             180                 185                 190
342 Pro Asn Leu Thr Glu Glu Gln Arg Asn Gly Phe Ile Gln Ser Leu Lys
343         195                 200                 205
346 Asp Asp Pro Ser Val Ser Lys Glu Ile Leu Ala Glu Ala Lys Lys Leu
347         210                 215                 220
350 Asn Asp Ala Gln Ala Pro Lys Glu Glu Asp Asn Asn Lys Pro Gly Lys
```

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: US/10/577,613   TIME: 11:18:49

                Input Set : A:\PTO.RJ.txt
                Output Set: N:\CRF4\05112006\J577613.raw

      351 225   230   235   240
      354 Glu Asp Gly Asn Lys Pro Gly Lys Glu Asp Gly Asn Gly Gly Gly Gly
      355   245   250   255
W--> 358 Gly Ala Ala Ala Ser Thr Ala Xaa Ala Ser Thr Ala Lys Glu Thr Ala
      359   260   265   270
W--> 362 Glu Ala Val Ala Asp Xaa Ile Leu Xaa Lys Ala Gly Pro Leu Val Ala
      363   275   280   285
      366 Val Ser Ala Val Ala Leu Asp Ile Thr Ala Tyr Pro
      367   290   295   300
      370 <210> SEQ ID NO: 4
      371 <211> LENGTH: 912   ⟶ Same Error .
      372 <212> TYPE: DNA
C--> 373 <213> ORGANISM: ⟨Artifical sequence⟩
      376 <220> FEATURE:
      377 <221> NAME/KEY: misc_feature
      378 <222> LOCATION: (792)..(792)
      379 <223> OTHER INFORMATION: n is a, c, g, t or u
      381 <220> FEATURE:
      382 <221> NAME/KEY: misc_feature
      383 <222> LOCATION: (835)..(835)
      384 <223> OTHER INFORMATION: n is a, c, g, t or u
      386 <220> FEATURE:
      387 <221> NAME/KEY: misc_feature
      388 <222> LOCATION: (844)..(844)
      389 <223> OTHER INFORMATION: n is a, c, g, t or u
      391 <400> SEQUENCE: 4
      392 tgctgcgcaa cacgatgaag ctcaacaaaa cgcttttttat caagtcttaa atatgcctaa   60
      394 cttaaatgct gatcaacgca atggttttat ccaaagcctt aaagatgatc caagccaaag   120
      396 tgctaacgtt ttaggtgaag ctaaaaaatt aaacgaatct caagcaccga aagctgacaa   180
      398 caatttcaac aaagaacaac aaaatgcttt ctatgaaatc ttgaacatgc ctaacttgaa   240
      400 cgaagaacaa cgcaatggtt tcatccaaag cttaaaagat gacccaagtc aaagtgctaa   300
      402 cctattgtca gaagctaaaa agttaaatga atctcaagca ccgaaagcgg ataacaaatt   360
      404 caacaaagaa caacaaaatg ctttctatga aatcttacat ttacctaact taaacgaaga   420
      406 acaacgcaat ggtttcatcc aaagcctaaa agatgaccca agccaaagcg ctaacctttt   480
      408 agcagaagct aaaaagctaa atgatgcaca agcaccaaaa gctgacaaca aattcaacaa   540
      410 agaacaacaa aatgctttct atgaaatttt acatttacct aacttaactg aagagcaacg   600
      412 taacggcttc atccaaagcc ttaaagacga tccttcagtg agcaaagaaa ttttagcaga   660
      414 agctaaaaag ctaaacgatg ctcaagcacc aaaagaggaa gacaacaaca aacctggtaa   720
      416 agaagacggc aacaaacctg gcaaagaaga cggtaacggc ggcggcggcg gcgcggccgc   780
W--> 418 gtcgaccgcg gncgcgtcga cggcaaagga gactgctgag gctgttgctg atganatact   840
W--> 420 gganaaggct gggccacttg ttgctgtgtc tgctgttgca cttgatataa ctgcctaccc   900
      422 ctaaaagcca aa   912
      425 <210> SEQ ID NO: 5
      426 <211> LENGTH: 3718
      427 <212> TYPE: DNA   ⟶ Same Error
C--> 428 <213> ORGANISM: ⟨Artifical sequence⟩
W--> 430 <220> FEATURE:
W--> 430 <223> OTHER INFORMATION:
W--> 430 <400> 5

⟨handwritten note: The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.⟩

file://C:\CRF4\Outhold\VsrJ577613.htm   5/11/2006

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,613**   TIME: 11:18:50

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 264,278,291
Seq#:4; N Pos. 792,835,844
Seq#:8; N Pos. 488,531,540
Seq#:9; N Pos. 440,483,492
Seq#:12; N Pos. 792,835,844

Use of <220> Feature(NEW RULES):
Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:1,2,5,6,7,10,11,13,14

VERIFICATION SUMMARY   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,613**   TIME: 11:18:50

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:18 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:20 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:20 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:1, <213>
ORGANISM:Artificial Sequence
L:20 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:20
L:197 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:199 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:2, <213>
ORGANISM:Artificial Sequence
L:199 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:2, <213>
ORGANISM:Artificial Sequence
L:199 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:199
L:274 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:256
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:272
L:373 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:780
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:840
L:428 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:430 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:430 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:430 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:430
L:559 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:561 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213>
ORGANISM:Artificial Sequence
L:561 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213>
ORGANISM:Artificial Sequence
L:561 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:561
L:652 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:654 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:7, <213>
ORGANISM:Artificial Sequence
L:654 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:7, <213>
ORGANISM:Artificial Sequence
L:654 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:654
L:743 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
L:812 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420
L:847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480
L:881 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:883 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>
ORGANISM:Artificial Sequence
L:883 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>
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L:883 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:883
L:1028 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:1030 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:11, <213>
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L:1030 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213>

ORGANISM:Artificial Sequence
L:1030 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:1030
L:1173 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:1218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:780
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:840
L:1252 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:1254 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:13, <213>
ORGANISM:Artificial Sequence
L:1254 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:13, <213>
ORGANISM:Artificial Sequence
L:1254 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:1254

VERIFICATION SUMMARY   DATE: 05/11/2006
PATENT APPLICATION: US/10/577,613   TIME: 11:18:50

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\05112006\J577613.raw**

L:1355 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:1357 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:1357 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:14, <213>
ORGANISM:Artificial Sequence
L:1357 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:14,Line#:1357